

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

Applicant's or agent's file reference M/WAS-086-PC	<div style="display: flex; justify-content: space-between;"> <div>FOR FURTHER ACTION</div> <div>See Form PCT/IPEA/416</div> </div>	
International application No. PCT/EP2004/012669	International filing date (<i>month/day/year</i>) 11/09/2004	Priority date (<i>month/day/year</i>) 11/10/2003
International Patent Classification (IPC) or national classification and IPC A62C39/00, A62C35/15		
Applicant WAGNER ALARM- UND SICHERUNGSSYSTEME GMBH et al.		
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p style="margin-left: 20px;">a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of 1 sheet as follows:</p> <div style="margin-left: 40px;"> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers to contain an amendment that goes beyond the disclosure in the international application as originally filed, as indicated in Item 4 of Box No. 1 and the Supplemental Box.</p> </div> <p style="margin-left: 20px;">b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the supplemental box relating to sequence listing (see Section 802 of the Administrative Instructions).</p>		
<p>4. This report contains indications relating to the following items:</p> <div style="margin-left: 20px;"> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p> </div>		
Date of submission of the request 06/20/2005	Date of completion of this report 01/20/2006	
Name and mailing address of the IPEA <i>{ address information }</i>	Authorized officer Triantaphillou, P	

**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/EP2004/012669

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, provided nothing different is indicated in this item.

☐ This report is based on a translation from the original language into the following language ,
in which the language of translation is furnished for the following purposes:

- ☐ international search (Rules 12.3 and 23.1(b))
☐ publication of the international application (Rule 12.4)
☐ international preliminary examination (Rules 55.2 and/or 55.3)

2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

Description, pages

1-16 as originally filed

Claims, Nos.

2-10 as originally filed

1 received on 06/02/2005 with letter of 06/01/2005

Drawings, sheets

1/3-3/3 as originally filed

☐ A sequence listing and/or any related table(s) - see supplemental box relating to sequence listing.

3. ☐ The amendments have resulted in the cancellation of the following documents:

- ☐ description, pages
☐ claims, Nos.
☐ drawings, sheets/figures
☐ sequence listing (*specify*):
☐ any table(s) related to sequence listing (*specify*):

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as originally filed, as indicated in the supplemental box (Rule 70.2(c)).

- ☐ description, pages
☐ claims, Nos.
☐ drawings, sheets/figures
☐ sequence listing (*specify*):
☐ any table(s) related to sequence listing (*specify*):

* If item 4 applies, some or all of those sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT
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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims 1-10

No: Claims

Inventive Step (IS)

Yes: Claims 1-10

No: Claims

Industrial applicability (IA)

Yes: Claims 1-10

No: Claims

2. Citations and explanations (Rule 70.7)

see supplemental sheet

**INTERNATIONAL PRELIMINARY REPORT
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(SUPPLEMENTAL SHEET)**

International application No.

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Box V

**Reasoned statement with regard to novelty, inventive step and industrial applicability;
citations and explanations supporting such statement**

Reference is made to the following document(s):

D1: US 2001/029750 A1 (KOTLIAR IGOR K), October 18, 2001 (2001-10-18)

- 1.1 Document D1 is regarded as being the closest prior art with respect to the subject matter of the claim. Same discloses (reference numerals in parentheses refer to this cited document):

"Device for preventing and extinguishing fires in a closed spatial area or closed sections of a divisible spatial area (referred to in the following as "target area"), having a buffer reservoir (112) in which oxygen-displacing gas is stored under high pressure, at least one supply line system (113) which connects at least one extinguishing nozzle (114) with the buffer reservoir by means of a pressure reducing valve, and a controller for controlling the pressure reducing valve in order to introduce the oxygen-displacing gas into the target area (110) gradually as needed, or instantly in the event of fire, whereby one or more inert-rendered levels of reduced oxygen content in comparison to the natural state can be set in the target area, [whereby] said buffer reservoir is configured as a high-pressure pipe having a compressive strength of ≥ 200 bar."

- 1.2 The subject matter of claim 1 therefore differs from the known device for preventing and extinguishing fires in that

"each head section (12) of high-pressure pipe (8) has a connection (13) for a respective supply line system (4)."

- 1.3 The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

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(SUPPLEMENTAL SHEET)**

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- 2.1 The task which the present invention addresses can thus be seen to be that *in the event of fire, the inert gas stored in the high-pressure pipe can be fed particularly rapidly into the target area and a fire can be extinguished extremely effectively and quickly.*
- 2.2 For the following reasons, the solution to this task proposed in claim 1 of the present invention is based on an inventive step (PCT Article 33(3)): *the closest prior art does not address this task. The prior art moreover makes no reference to the solution.*
- 3.1 Claims 2-10 are dependent on claim 1 and thus likewise meet the PCT requirements for novelty and inventive step.

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Device for Preventing and Extinguishing Fires

NEW CLAIM 1

- 1 Device for preventing and extinguishing fires in a closed spatial area or in closed sections of a divisible spatial area (1) (referred to in the following as "target area"), having a buffer reservoir (2) in which oxygen-displacing gas (3) is stored under high pressure, at least one supply line system (4) which in each case connects at least one respective extinguishing nozzle (5) with said buffer reservoir (2) by means of a pressure reducing valve (6), and a controller (7) for controlling said pressure reducing valve (6) in order to introduce the oxygen-displacing gas (3) into target area (1) gradually as needed, or instantly in the event of fire, wherein one or more inert-rendered levels of reduced oxygen content in comparison to the natural state can be set in target area (1),
characterized in that
buffer reservoir (2) is configured as a high-pressure pipe (8) having a compressive strength of ≥ 200 bar, whereby each head section (12) of high-pressure pipe (8) has a connection (13) to the respective supply line system (4).